

Working Mathematically

Name Parker Burns

Class _____ Date _____

Progression Points

2.25 Checking accuracy of calculations with a calculator.

2.5 Explanation and comparison of alternate computation methods.

2.75 Selection of multiplication and division as more efficient processes than repeated addition and subtraction.

3.0 Test the truth of mathematical statements.

3.0+ Solve more complex mathematical problems.

2.25

- 1 Use a calculator to help you correct Glub's test. Write the correct answers where Glub has made a mistake.

a
$$\begin{array}{r} 67 \\ - 19 \\ \hline 48 \end{array}$$
 ✓

b
$$\begin{array}{r} 70 \\ \times 43 \\ \hline 3001 \end{array}$$
 ✗

c $42 \div 7 = 7$ ✗

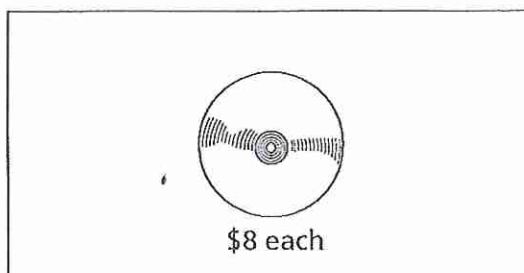
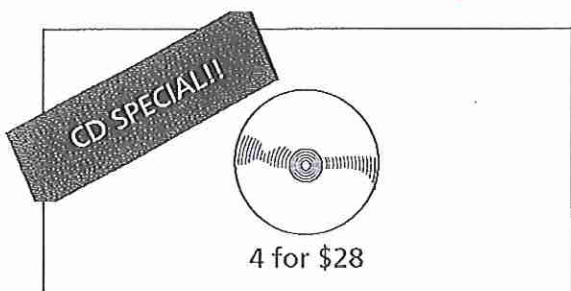
d
$$\begin{array}{r} 846 \\ 10 \\ + 94 \\ \hline 950 \end{array}$$
 ✓

e
$$\begin{array}{r} 26 \\ \times 9 \\ \hline 35 \end{array}$$
 ✗

f
$$\begin{array}{r} 17 \\ 204 \\ + 8 \\ \hline 219 \end{array}$$
 ✗

g
$$\begin{array}{r} 406 \\ - 318 \\ \hline 88 \end{array}$$
 ✓

h $564 \div 4 = 140$ ✗



2.5

- 2 Sally wanted to buy four CDs but needed to know the cheapest way to buy them. This is what she did.

Because four CDs cost \$28, she halved that to find that two cost \$14, and she halved that to see that one would cost \$7. Sally decided that 4 for \$28 was the best choice for her.

Do you agree with Sally's answer? Explain why your answer would be different or the same. Explain the method you would use to solve this problem.

I agree with sally because it is a great method

cheaper - 4 for \$28.

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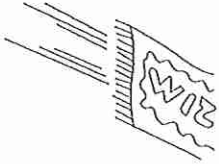


2.75 Selection of multiplication and division as more efficient processes than repeated addition and subtraction.

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2.75

3 Show your working when solving these problems.

Problem	Working	Answer
a On his magic carpet, Merv can travel 58 km a day. How far can he travel in 7 days?	 $\begin{array}{r} 58 \\ \times 7 \\ \hline 406 \end{array}$	406
b If there are 64 books to be placed evenly on 8 shelves, how many books on each shelf?	 $\begin{array}{r} 8 \\ 8 \overline{) 64} \end{array}$	8
c Each of Mervyn's pots holds 176 litres. If he has 8 pots, how many litres can he store altogether?	 $\begin{array}{r} 176 \\ \times 8 \\ \hline 1208 \end{array}$	1408 1208

3.0 4a Add 13 to these numbers.

	12	22	32	42	52	62	72	82
+13	25	35	45	55	65	75	85	95

b Can you see a pattern in numerals used in the answers? yes

c What is it? it is just plusing 1 each time

5a Tom said that every time he divides a two-digit number ending in 2 by the numeral 7 he gets the same remainder. Complete the table below to see if this is true.

	12	22	32	42	52	62	72	82	92
÷7	1r5	3r1	5r4	6	7r3	8r2	10r2	11r5	13r1

b Was Tom correct? No!!

Working Mathematically

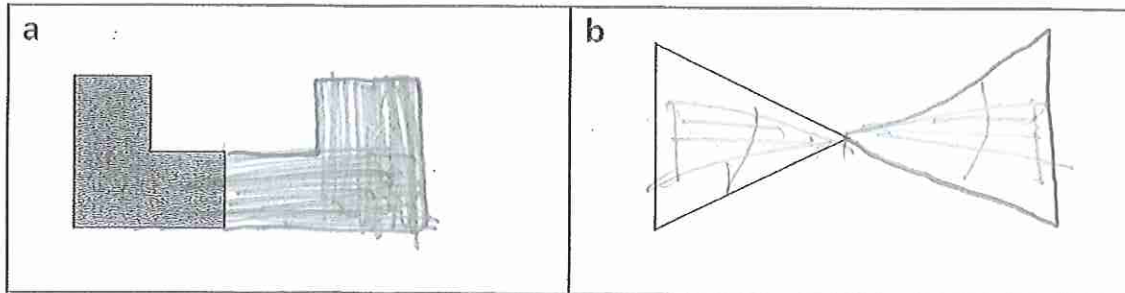
Name _____

Class _____ Date _____

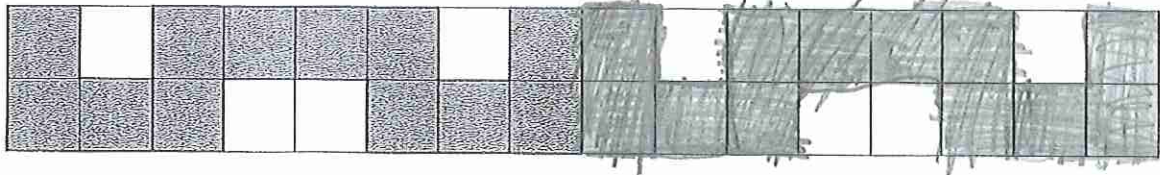
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3.0 6 Reflect these shapes. (flip)



7 Continue the rotation pattern.

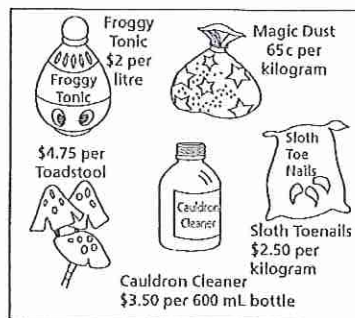


3.0+

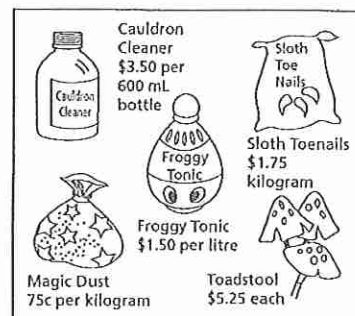
Here is a list of the things Mervyn wants to buy.

2 L Froggy Tonic
8 kg Magic Dust
600 mL Cauldron Cleaner
7 kg Sloth Toenails
3 Toadstools

Here are the prices at Wizard Wonderland.



Here are the prices at Mr Wize's SuperMart.



8 Solve the problems. You may need a calculator.

a	If Mervyn bought all the things on his shopping list which would be the cheapest shop to shop at?	Mr. Wize's Super Market ✓
b	How much change from a \$100 note would he get if he bought all his groceries at Wizard Wonderland?	86.60 58.55 ✓
c	If he bought his groceries at Wize's Supamart and was \$12.25 short in his payment, how much money did he have?	43.00 28.25 ✓

~~21-10-11~~
~~21-10-11~~
~~21-10-11~~

~~\$4.00~~
~~\$5.20~~
~~\$3.50~~
~~\$7.50~~
~~\$16.20~~
44.45

~~\$3.00~~
~~\$5.00~~
~~\$3.50~~
~~\$12.25~~
~~\$15.75~~

40.50

WORKING MATHEMATICALLY

GRADE 4

Students completed problem solving activities, worded problems and calculator tasks. Whilst completing worded problems students identified the correct operation process through recognition of written language. Students also identified number patterns. Throughout this mathematics topic students were able to apply number skills to everyday contexts.

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TEACHER COMMENT

Parker shows excellent knowledge in this subject area. He displays excellent calculator skills and can identify different number patterns. He shows good understanding whilst choosing the more efficient process whilst completing problem solving tasks.